**Acceleration Graphing Practice Name:**

**Directions:** Please complete the questions below. Make sure that your graphs have everything they need.

1. Please write the acceleration equation below.
2. Acceleration occurs when one of two things happen:
3. a. Positive acceleration means:

b. Negative acceleration means:

1. Use the following information and graph a velocity graph.

|  |  |  |
| --- | --- | --- |
| Time (seconds) | Distance (meters) | Velocity (m/s) |
| 0 | 0 |  |
| 1 | 13 | 13 |
| 2 | 19 | 6 |
| 3 | 24 | 4 |
| 4 | 25 | 1 |
| 5 | 25 | 0 |

1. Now use the information and graph an acceleration graph.
2. Explain whether the person is speeding up or slowing down. Name two ways you can tell.

**Math Practice**

1. The average acceleration of a car that goes from 0 m/s to 25 m/s in 8 seconds is what?
2. During a race, a sprinter increases from 5 m/s to 7.5 m/s over a period of 1.25 seconds. What is the sprinter’s average acceleration during this period?